MATERIAL SAFETY DATA SHEET



VECTOBAC® G BIOLOGICAL INSECTICIDE

SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: <u>VectoBac G Biological Insecticide</u>

Product Use: Biological Insecticide for control of mosquitoes

Company: Sumitomo Chemical Australia Pty Ltd

A.B.N. 21 081 096 255

Address: 501 Victoria Avenue Chatswood NSW 2067 Telephone Number: (02) 9904-6499 (Mon–Fri 8am–5pm EST)

Emergency Telephone Number: 1800 024 973 (24 hours) (EMERGENCIES ONLY)

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity	CAS number	Proportion
Bacillus thuringiensis subsp israelensis	68038-71-1	<5%
Other ingredients determined not to be hazardous		to 100%

SECTION 3: HAZARDS IDENTIFICATION

Approved Criteria Classification: NOHSC exposure standards have not been assigned for the

active ingredient or the excipients in the formulation.

SUSDP Classification: Not Scheduled

ADG Classification: Not a Dangerous Good

EMERGENCY OVERVIEW

Colour: Tan
Physical description: granule

Odour: Mild fermentation (malt) odour

Major health hazards: Product is non-toxic by ingestion, skin contact or inhalation.

Direct contact with eyes or skin may cause mild irritation.

POTENTIAL HEALTH EFFECTS

Acute Toxicity: Product is non-toxic by ingestion, skin contact or inhalation. Direct contact with eyes and skin may cause mild irritation.

Signs and Symptoms of Systemic Effects: Direct contact with eyes may cause mild irritation. Inhalation of dust may result in respiratory tract irritation

Eye: Non Irritant Skin: Non irritant

Ingestion: Not a likely route of exposure **Inhalation:** Not a likely route of exposure

SECTION 4: FIRST AID MEASURES

Scheduled Poisons: Poison Information Centres in each State capital city can provide additional

assistance for scheduled poisons. Telephone: 131126 (Australia).

Eye contact: Remove from source of exposure. Flush with copious amounts of water. If

irritation persists or signs of toxicity occur, seek medical attention. Provide

symptomatic/supportive care as necessary.

Skin contact: Remove from source of exposure. Flush with copious amounts of water. If

irritation persists or signs of toxicity occur, seek medical attention. Provide

symptomatic/supportive care as necessary.

Ingestion: Remove from source of exposure. If signs of toxicity occur, seek medical

attention. Provide symptomatic/supportive care as necessary.

Inhalation: Remove from source of exposure. If signs of toxicity occur, seek medical

attention. Provide symptomatic/supportive care as necessary.

Note to physician: No known antidote, provide symptomatic/supportive care as necessary.

SECTION 5: FIRE FIGHTING MEASURES

Fire and Explosion Hazards: Not flammable.

Extinguishing Media: Use appropriate medium for the underlying cause of the fire.

Hazardous Decomposition

Products:

None

Hazardous reactions: None. Hazardous polymerisation will not occur.

Materials to avoid: None

Fire Fighting: Wear protective clothing and self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency Telephone Number: 1800 024 973 (24 hours) (EMERGENCIES ONLY)

Observe precautions in Section 8: Personal Protection

Stop the source of the spill if it is safe to do so. Contain the spill to prevent further contamination of the soil, surface water, or ground water.

FOR SPILLS ON LAND

CONTAINMENT: Avoid runoff into storm sewers or other bodies of water.

CLEANUP: Recover product. Place into appropriate container for disposal. Avoid dust.

Ventilate and wash the spill area. Pick up wash liquid with additional absorbent

and place in a chemical waste container.

FOR SPILLS IN WATER

CONTAINMENT: Avoid runoff into storm sewers or other bodies of water. Isolate contaminated

water.

CLEANUP: Remove contaminated water for treatment or disposal.

SECTION 7: HANDLING AND STORAGE

Keep out of reach of children. Keep pesticide in original container. Do not store near flame, sparks or hot surfaces. Do not store or transport near food or feed. Do not contaminate food or feed. Do not put into food or drink containers. Store in a cool, dry place, out of direct sunlight.

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SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

EYE PROTECTION: Not usually required. Eye contact can be avoided by wearing

protective eyewear.

RESPIRATION/VENTILATION: Not usually required. If necessary use a respirator with a dust/mist

filter. Use only in well ventilated areas.

SKIN PROTECTION: Skin contact should be minimised by wearing protective clothing

including impervious gloves. Wash thoroughly with soap and water

after handling.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Tan granular solid

ODOUR: Mild fermentation (malt) odour

MELTING/FREEZING POINT: Not BOILING POINT: NA

BULK DENSITY: $0.4 \pm 0.06 \text{ g/mL}$

SOLUBILITY: Suspends and partially soluble in water

VAPOUR PRESSURE: NA

pH: $5.4 \pm 1.0 \text{ (10\% slurry)}$

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable. No oxidising or reducing properties.

INCOMPATIBILITY: Alkalinity inactivates product.

HAZARDOUS None that are known.

DECOMPOSITION PRODUCTS: Hazardous polymerisation will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute (Product Specific)

Eye irritation: N/D. VectoBac Technical Powder was mildly irritating in an eye

irritation test in rabbits.

 $\begin{array}{ll} \text{Oral LD}_{50} \text{ (rat):} & >5,000 \text{ mg/kg (rat)} \\ \text{Dermal LD}_{50} \text{ (rabbits):} & >5,000 \text{ mg/kg (rabbit)} \\ \end{array}$

Inhalation toxicity: N/D. >2.84 mg/L (rat). No lethality was observed in rats after a 4

hour exposure at the highest obtainable inhalation exposure chamber concentration to VectoBac Technical Powder.

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Irritation of the skin (rabbits): N/D. Transient, slight or mild irritation noted in a dermal toxicity

study with VectoBac Technical Powder.

Sensitisation: N/D.

Chronic/Carcinogenicity

No adverse effects known. None of the components are classified as carcinogens.

Teratology (Birth Defects) Information

No adverse effects known

Reproduction InformationNo adverse effects known

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SECTION 12: ECOLOGICAL INFORMATION

Environmental Fate

Hydrolysis:Not availablePhotolysis:Not availableSoil half life:Not availableWater solubility:Not available

Ecotoxicity

Avian Low Toxicity to fish and wildlife

Aquatic Low Toxicity to fish and wildlife

Other non-target organisms Low Toxicity to fish and wildlife.

VectoBac G is toxic only to the larvae of certain diptera. It does not harm other

aquatic, marine or terrestrial fauna.

SECTION 13: DISPOSAL CONSIDERATIONS

Puncture, or shred and bury empty containers in a local authority landfill. If not available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots. Empty containers and product should NOT be burnt.

SECTION 14: TRANSPORT INFORMATION

Store in the closed, original container in a well-ventilated area, as cool as possible. Keep out of reach of children. Do not store in direct sunlight. This product is a biological larvicide containing crystals of protein and bacterial spores. Activity can be impaired unless product is protected from high temperature at all times. When transporting keep shaded. Avoid standing containers in direct sunlight in the field or on airstrips. Do not leave in car boot or other enclosed space on a sunny day. Do not store at 30°C or above.

ADG Code: Not a Dangerous Good

HAZCHEM Code: Not Applicable

SECTION 15: REGULATORY INFORMATION

This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA).

SECTION 16: OTHER INFORMATION

Abbreviations:

NA Not Applicable
NDA No Data Available

Revision date: April 2006

Revision number:

THE INFORMATION GIVEN IN THIS MSDS IS BASED ON DATA AVAILABLE TO US AS OF THE REVISION DATE GIVEN HEREIN, AND BELIEVED TO BE CORRECT. CONTACT SUMITOMO CHEMICAL AUSTRALIA TO CONFIRM IF YOU HAVE THE MOST CURRENT MSDS.

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